- 1. A process for preparing a controlled release potassium chloride tablet comprising coating potassium chloride crystals with a first coating of a water insoluble polymeric membrane and a second coating of a plasticized hydrophilic polymer, blending the coated potassium chloride crystals with one or more excipients, and compressing the blend into a tablet.
- 2. The process of claim 1 wherein the water insoluble polymeric membrane contains ethyl cellulose.
- 3. The process of claim 2 wherein the step of coating the ethylcellulose membrane includes to the coacervating said ethylcellulose from a solvent in the presence of polyethylene as the phase inducer.
 - 4. The process of claim 2 wherein the primary ethylcellulose membrane has a viscosity of about 90 to 110 cps and is applied to the crystal in an amount of about 8 and about 19% by weight based on the weight of the potassium chloride crystal.
 - 5. The process of claim 4 wherein the hydrophilic polymer membrane is comprised of a water swellable/water soluble polymer selected from the group consisting of acacia, alginic acid or its salt, corn starch, gelatin, xanthan gum, polyvinylpyrrolidone, sodium carboxymethylcellulose, methylcellulose, ethylcellulose having a viscosity from about 4 to 20 cps and hydroxypropylmethyl cellulose or a combination therof.
 - 6. The process of claim 5 wherein the hydrophilic polymer membrane comprises between about 1 and 4% based on the weight of the ethylcellulose coated crystals.
 - 7. The process of claim 6 wherein the hydrophilic polymeric membrane is formed from a polymer selected from the group consisting of polyvinylpyrrolidone, ethylcellulose and hydroxypropylmethyl cellulose, and mixtures thereof.

- 8. The process of claim 7 wherein the hydrophilic polymeric membrane is plasticized with a compound selected from the group consisting of polyethylene glycols, propylene glycol, triethyl citrate, triacetin, dibutyl phthalate and dibutyl sebacate.
- 9. The process of claim 8 wherein the hydrophilic polymeric membrane is provided by coating the ethylcellulose coated potassium chloride with an aqueous solution containing about 93 parts by weight PVP and about 7 parts by weight PEG 400 and PEG 4000 (weight ratio 1:1) for a weight gain of about 2% w/w.
- 10. The process of claim 8 wherein the hydrophilic polymeric membrane is provided by coating with an aqueous solution containing PVP and dibutyl sebacate at a ratio of 97 parts by weight to 3 parts by weight.
 - 11. The process of claim 8 wherein the hydrophilic polymeric membrane is provided by coating with an aqueous solution containing HPMC and PEG 400 at a ratio of 93 parts by weight to 7 parts by weight.
 - 12. The process of claim 8 wherein the hydrophilic polymeric membrane is provided by coating with a solution of ethylcellulose, PVP and dibutyl sebacate at a ratio of about 40 to 48 parts by weight ethylcellulose, about 40 to 48 parts PVP and about 2 to 6 parts dibutyl sebacate.
 - 13. The process of claim 1 wherein the excipient is microcrystalline cellulose or hydrous or anhydrous lactose and the excipient is present in an amount of about 5-15% w/w.
 - 14. The process of claim 13 wherein the excipient additionally includes a disintegrant and a lubricant/surfactant.
 - 15. A potassium chloride tablet comprising a compressed mixture of an excipient and potassium chloride crystals, said crystals being coated with a first layer of a water insoluble polymer

- 16. The tablet of claim 15 wherein potassium chloride is present in an amount effective for the treatment for potassium deficiency in humans.
- 17. The tablet of claim 16 wherein the amount of potassium chloride is from about 8 mEq to about 20 mEq.
- 18. The tablet of claim 15 wherein the tablet releases not more than 40% of the potassium chloride they contain in one hr and not less than 80% of the potassium chloride over a period of 8 hrs when tested in USP Apparatus 2 (Paddles @ 50 rpm) in purified water.

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